

**SM3H 8.4 odd answers**

1. work is the answer

3. 1

5.  $-\frac{1}{2}$

7.  $\sin 26^\circ$

9.  $\tan 30^\circ = \frac{\sqrt{3}}{3}$

11.  $\frac{\sqrt{2-\sqrt{3}}}{2}$

13.  $\frac{\sqrt{2+\sqrt{2}}}{2}$

15. positive

17. negative

19.  $x = \frac{2\pi}{3} + 4\pi k, x = \frac{10\pi}{3} + 4\pi k,$

21.  $x = \frac{\pi k}{4}$

23.  $x = 120^\circ, 150^\circ, 300^\circ, 330^\circ$

25.  $x = 22.5^\circ, 157.5^\circ, 202.5^\circ, 337.5^\circ$

27.  $x = \frac{\pi}{6}, \frac{5\pi}{6}, \frac{7\pi}{6}, \frac{11\pi}{6}$

29.  $x = \frac{\pi}{3}$

31.  $x = 0, \pi$

33.  $x = \frac{\pi}{3}, \frac{5\pi}{3}, \pi$

35-39 work is the answer

41. Show work!  $\sin \alpha = \frac{\sqrt{5}}{5}$   $\csc \alpha = \sqrt{5}$

$\cos \alpha = \frac{2\sqrt{5}}{5}$   $\sec \alpha = \frac{\sqrt{5}}{2}$

$\tan \alpha = \frac{1}{2}$   $\cot \alpha = 2$

43.  $\frac{161}{289}$